Title (en)

ADJUSTING TRANSMISSIONS BASED ON DIRECT SENSING OF THE IONOSPHERE

Title (de)

EINSTELLUNG VON GETRIEBEN BASIEREND AUF DER DIREKTEN IONOSPHÄRENERFASSUNG

Title (fr)

AJUSTEMENT DE TRANSMISSIONS SUR LA BASE D'UNE DÉTECTION DIRECTE DE L'IONOSPHÈRE

Publication

EP 3692652 A4 20210630 (EN)

Application

EP 18864526 A 20181003

Priority

- US 201762567802 P 20171004
- US 2018054165 W 20181003

Abstract (en)

[origin: WO2019070857A2] A communication system uses skywave propagation to transmit data between communication nodes over a data transmission path. An atmospheric sensor is configured to collect atmospheric data at the reflection point of the data transmission path where the transmission path is redirected from the atmosphere toward the surface of the Earth. Data collected by the atmospheric sensor may be used to predict future ionospheric conditions and determine optimum working frequencies for transmission of data between the communication nodes.

IPC 8 full level

H04B 7/22 (2006.01); **H04B 17/382** (2015.01)

CPC (source: EP GB US)

G01S 13/956 (2013.01 - US); **G01W 1/00** (2013.01 - US); **H04B 7/22** (2013.01 - EP US); **H04B 17/391** (2015.01 - US); **H04N 7/22** (2013.01 - GB); Y02A 90/10 (2017.12 - EP)

Citation (search report)

- [IA] CN 106788815 A 20170531 - UNIV BEIHANG
- [A] WO 2007064953 A2 20070607 - RADIO PROPAGATION SERVICES INC [US]
- See references of WO 2019070857A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2019070857 A2 20190411; **WO 2019070857 A3 20190718**; BR 112020006922 A2 20201006; CA 3114510 A1 20190411; CN 111527710 A 20200811; DE 112018004451 T5 20200520; EP 3692652 A2 20200812; EP 3692652 A4 20210630; GB 202006567 D0 20200617; GB 2581699 A 20200826; GB 2581699 B 20220831; JP 2020537404 A 20201217; JP 7142687 B2 20220927; SG 11202110793S A 20211028; US 11496210 B2 20221108; US 2021058150 A1 20210225; US 2023283363 A1 20230907

DOCDB simple family (application)

US 2018054165 W 20181003; BR 112020006922 A 20181003; CA 3114510 A 20181003; CN 201880078672 A 20181003; DE 112018004451 T 20181003; EP 18864526 A 20181003; GB 202006567 A 20181003; JP 2020519791 A 20181003; SG 11202110793S A 20181003; US 202015929250 A 20200403; US 202217936442 A 20220929